



Technical Data

EZ³ FINE 90 BFA FINE GRAINED/SHOTCRETABLE CASTABLE

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|--|-------------|
| Recommended Service Temperature Limit | 2500°F |
| Recommended lining thickness..... | 4 " (100mm) |
| Water Required for Mixing :Pumpable and Shotcretable..... | 6.0-7.0%* |
| :Hand packed..... | 6.0-7.0** |
| Material Required Per Ft ³ :Shotcreted (includes 5% rebound)..... | 179-181 |
| :Hand packed..... | 172-177 |
| Packaging..... | 55 lb bag |

HAND PACKED**

| TEMPERATURE (°F) | BULK DENSITY (lb/ft ³) | LINEAR CHANGE (%) | MODULUS OF RUPTURE (lb/in ²) | COLD CRUSH STRENGTH (lb/in ²) | APPARENT POROSITY (%) | K-FACTOR ASTM C-1113 (Btu-in/hr-ft ² °F) | ABRASION LOSS (cm ³) |
|---------------------|--|-------------------------|--|---|-----------------------------|---|--|
| 220 | 175-180 | ----- | 1800-2300 | 8900-12900 | 14-18 | ----- | 13 - 18 |
| 1500 | 173-178 | -0.3 to 0.0 | 2700-3200 | 10800-14800 | 17-21 | ----- | 7 - 12 |
| 2000 | 175-180 | -0.5 to -0.1 | 4000-4600 | 17000-21000 | 20-24 | ----- | 5 - 10 |

SHOTCRETED*

| | | | | | | | |
|------|---------|--------------|-----------|-------------|-------|------|-----|
| 220 | 176-178 | ----- | 2500-3000 | 13000-17000 | 12-16 | 28.9 | 6-9 |
| 1500 | 172-178 | -0.6 to -0.2 | 4000-5000 | 13000-17000 | 16-20 | 18.8 | 5-8 |
| 2000 | 174-178 | -0.6 to -0.2 | 5000-6000 | 17000-23000 | 19-23 | 19.4 | 4-7 |

*Shotcreting (1.5" line) applications should be performed at very thick consistencies.

Typical flow values range from 5-15% self flow or 40-70% ASTM flow (C 860).

** A liquid thickener is required for hand packing

CHEMICAL ANALYSIS: (Ignited)

| | |
|--------------------------------------|------|
| Al ₂ O ₃ | 88.9 |
| SiO ₂ | 7.2 |
| Fe ₂ O ₃ | 0.1 |
| TiO ₂ | 1.4 |
| CaO | 2.1 |
| MgO | 0.1 |
| Alkalies | 0.2 |

HOT MODULUS OF RUPTURE: (lb/in²)

| Temp °F | Shotcreted |
|-----------|------------|
| 1500..... | 5000-7000 |
| 2000..... | 4100-6100 |
| 2550..... | 500 - 800 |

The properties shown on this data sheet represent typical average results generated using standard ASTM test methods (unless otherwise noted) conducted under controlled condition (using standard rectangular shapes), and should not be considered to be guaranteed specifications. Properties are subject to normal manufacturing statistical standard deviation ranges, and Resco Products, Inc. reserves the right to modify the properties and specifications at any time without prior notice.

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